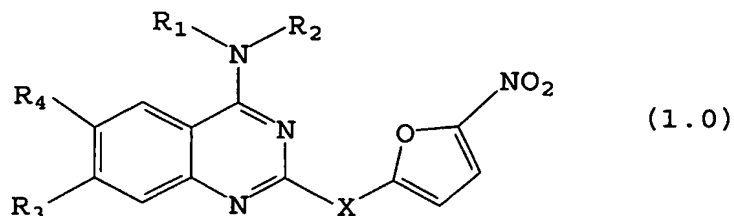


CLAIMS:

1. A compound of the formula



wherein

X is absent or trans or cis CHCH,

R₁ is (C₁-C₁₀)alkyl unsubstituted or substituted by one to three hydroxy, (C₁-C₁₀)alkenyl unsubstituted or substituted by one to three hydroxy, (C₁-C₁₀)alkynyl unsubstituted or substituted by one to three hydroxy, or aryl unsubstituted or substituted by one to three hydroxy;

R₂ is hydrogen, alkyl or aryl;

R₃ and R₄ are, independently of each other, H, halogen, or a solubilizing group,

with the proviso that at least one of R₃ and R₄ is halogen;

or a pharmaceutically acceptable salt thereof.

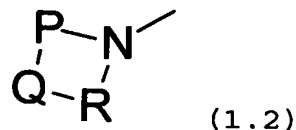
2. A compound according to claim 1, wherein R₁ is aryl unsubstituted or substituted by one to three hydroxy and R₂ is hydrogen.

3. A compound according to claim 1, wherein R₁ is aryl substituted by one hydroxy and R₂ is hydrogen.

4. A compound according to any one of claims 1 to 3, wherein R₄ is a halogen.

5. A compound according to any one of claims 1 to 3, wherein R_4 is fluorine.

6. A compound according to any one of claims 1 to 3, wherein the solubilizing group of R_3 or R_4 is



wherein:

P and R are each independently selected from CH_2 , CH_2CH_2 and CH_2CHT where T is alkyl, and

Q is O, S, NH or NCH_3 .

7. A compound according to claim 6, wherein R_3 is a halogen and R_4 is partial formula (1.2) wherein Q is NH or NCH_3 .

8. A compound according to claim 6 or claim 7, wherein Q is NCH_3 .

9. A compound according to any one of claims 1 to 8, wherein R_3 is an amine containing heterocycle.

10. A compound according to any one of claims 1 to 8, wherein R_3 is N-methylpiperazine.

11. A compound according to any one of claims 1 to 10 wherein X is trans CHCH.

12. A compound according to any one of claims 1 to 11, wherein R_1 is hydroxyethanol.

13. A compound according to any one of claims 1 to 11, wherein R_1 is hydroxyaniline.

14. A compound according to any one of claims 1 to 11, wherein R_1 is hydroxyphenyl.
15. A compound according to any one of claims 1 to 11, wherein R_1 is 2-hydroxyethanol.
- 5 16. A compound according to any one of claims 1 to 11, wherein R_1 is 4-hydroxyaniline.
17. A compound according to any one of claims 1 to 11, wherein R_1 is 4-hydroxyphenyl.
18. A compound according to any one of claims 1 to 17,
10 wherein R_2 is phenyl, substituted phenyl, pyranyl, substituted pyridinyl, thiophenyl, substituted thiophenyl, furanyl, substituted furanyl, thiazole, oxazole or substituted or unsubstituted imidazole.
19. A compound according to claim 12 or claim 15,
15 wherein R_2 is N-alkyl imidazole.
20. A compound of the formula 6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-(p-hydroxyanilino)-quinazoline.
21. A compound of the formula 7-(4-methylpiperazino)-6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-(p-hydroxyanilino)-
20 quinazoline.
22. A compound of the formula 6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-chloroquinazoline.
23. A compound of the formula 7-(4-methyl piperazino)-6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-chloroquinazoline.
- 25 24. A compound of the formula 6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-(3H)quinazolinone.

25. A compound of the formula 7-(4-methylpiperazino)-6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-(3H)quinazolinone.

26. A composition comprising a compound according to any one of claims 1 to 21.

5 27. A composition comprising a compound according to any one of claims 1 to 21, and a carrier, diluent or excipient.

28. A pharmaceutical composition comprising the compound according to any one of claims 1 to 21, and a
10 pharmaceutically acceptable carrier.

29. A method for treating a bacterial infection in a human or an animal, comprising administering to said human or said animal a therapeutically effective amount of a compound according to any one of claims 1 to 21, effective
15 in treating the bacterial infection.

30. A method of preventing a bacterial infection in a human or an animal, comprising administering to said human or said animal a prophylactically effective amount of a compound according to any one of claims 1 to 21 effective to
20 prevent the bacterial infection.

31. A method for disinfecting an object, including a human, of bacteria, comprising: contacting the object with the compound according to any one of claims 1 to 21 in an amount and for a time sufficient to achieve a desired degree
25 of disinfection.

32. A method of use of the compound according to any one of claims 1 to 21, for antiseptis of an object, including a human, of bacteria, comprising: contacting the object with the compound according to any one of claims 1 to

21 in an amount and for a time sufficient to achieve a desired degree of antiseptis.

33. A method for sterilizing a surface of an object, including a human, of bacteria, which comprises: selecting
5 an area of the surface for sterilization and applying the compound according to any one of claims 1 to 21, onto the surface of the object in an amount and for a time sufficient to achieve sterilization.

34. Use of the compound according to any one of
10 claims 1 to 21, in the manufacture of a medicament for treating or preventing bacterial infection.

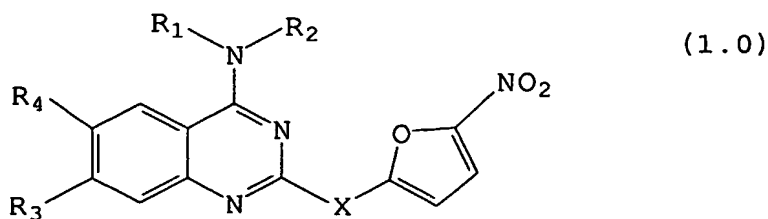
35. Use of the compound according to any one of claims 1 to 21, for treating or preventing bacterial infection in humans or animals.

15 36. Use of the compound according to any one of claims 1 to 21, for disinfection.

37. Use of the compound according to any one of claims 1 to 21, for antiseptis.

38. Use of the compound according to any one of
20 claims 1 to 21, for sterilization.

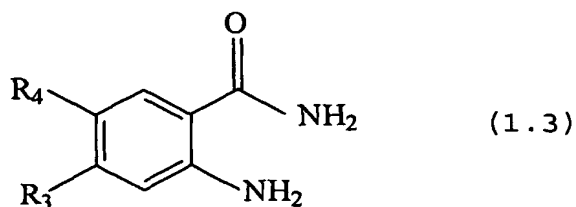
39. A process for the preparation of a compound of formula 1.0



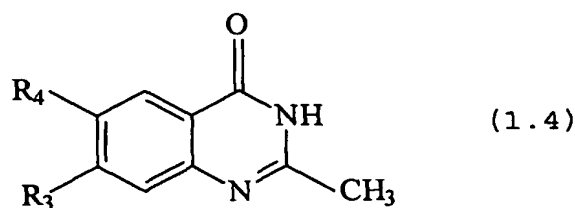
25 wherein R₁, R₂, R₃ and R₄ are as defined in claim 1,

the process comprising:

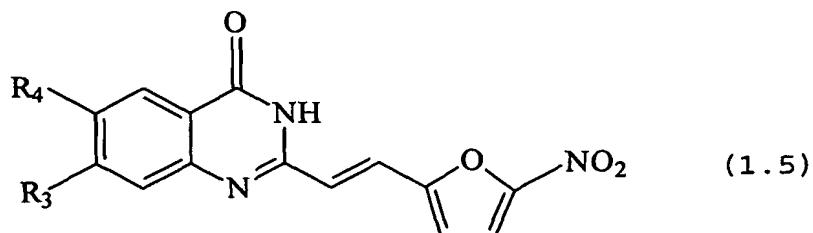
a) reacting a compound of formula (1.3)



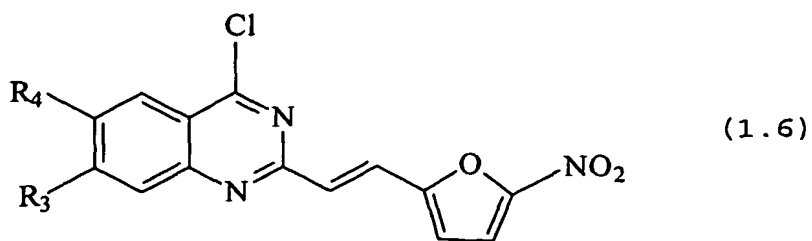
with hydrochloric acid, acetic anhydride and aqueous ammonia, to form a compound of formula (1.4)



b) reacting the compound of formula 1.4 with 5-nitro-2-furancarboxaldehyde, to form a compound of formula (1.5)

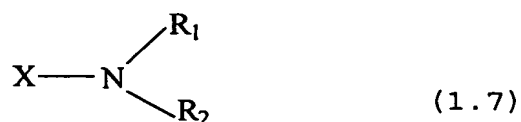


c) reacting the compound of formula 1.5 with phosphorus pentachloride and phosphorus oxychloride to form a compound of formula (1.6)



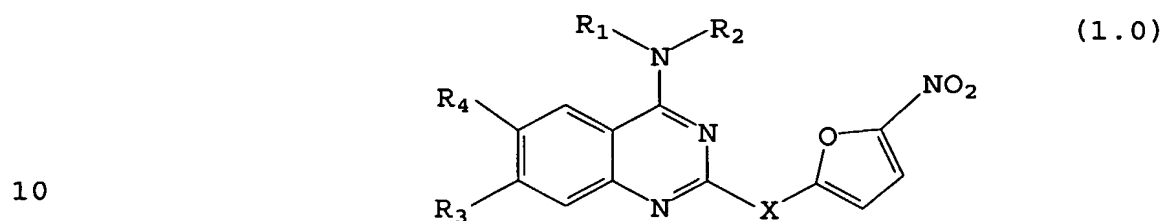
and

d) reacting the compound of formula 1.6 with a compound of the formula (1.7)



5 wherein X is H and R₁ and R₂ are as defined above.

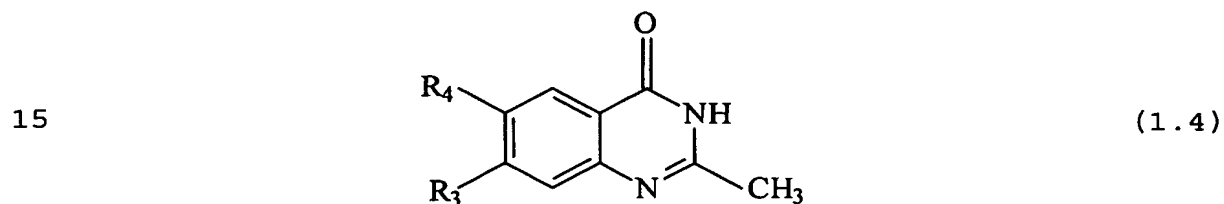
40. A process for the preparation of a compound of formula 1.0



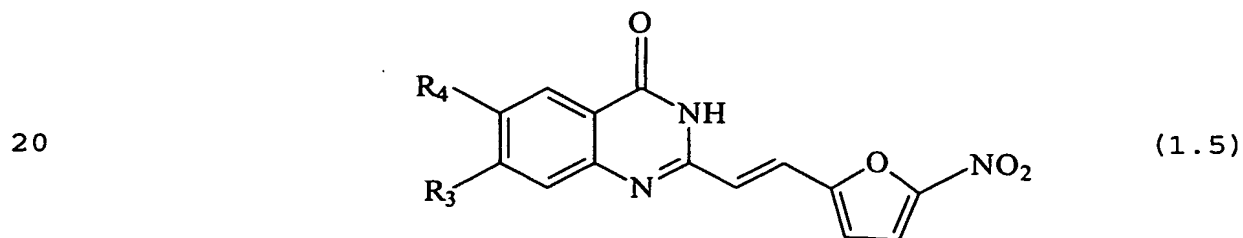
wherein R₁, R₂, R₃ and R₄ are as defined in claim 1,

the process comprising:

b) reacting a compound of formula 1.4

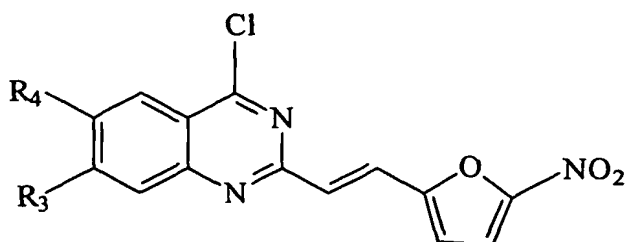


with 5-nitro-2-furancarboxaldehyde, to form a compound of formula (1.5)



c) reacting the compound of formula 1.5 with phosphorus pentachloride and phosphorus oxychloride to form a compound of formula (1.6)

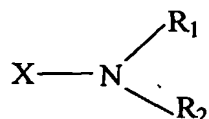
5



(1.6)

and

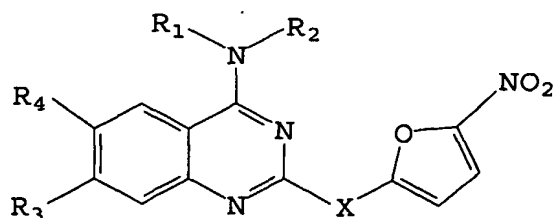
d) reacting the compound of formula 1.6 with a
10 compound of the formula (1.7)



(1.7)

wherein X is H and R₁ and R₂ are as defined above.

41. A process for the preparation of a compound of
15 formula 1.0

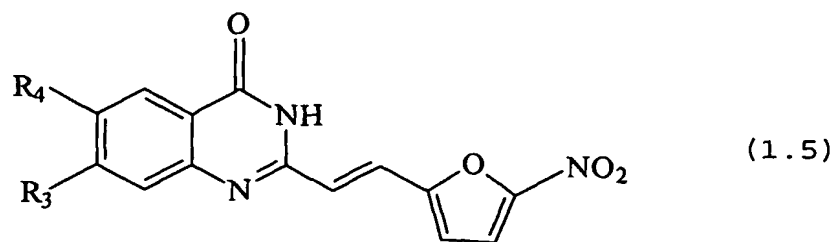


(1.0)

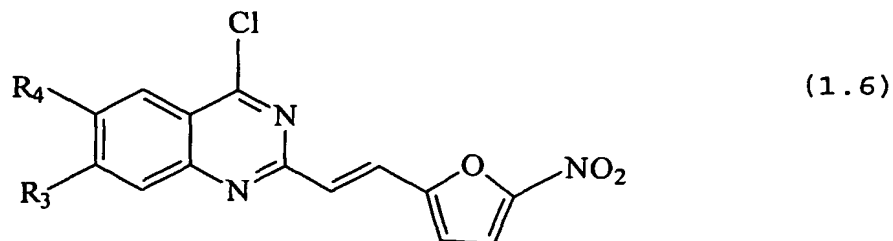
wherein R₁, R₂, R₃ and R₄ are as defined in claim 1,

20 the process comprising:

c) reacting a compound of formula 1.5



with phosphorus pentachloride and phosphorus oxychloride to form a compound of formula (1.6)



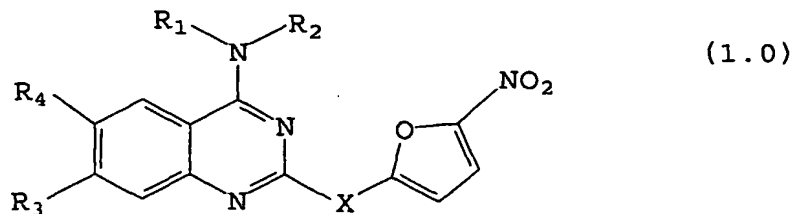
and

d) reacting the compound of formula 1.6 with a compound of the formula (1.7)



wherein X is H and R₁ and R₂ are as defined above.

42. A process for the preparation of a compound of formula 1.0

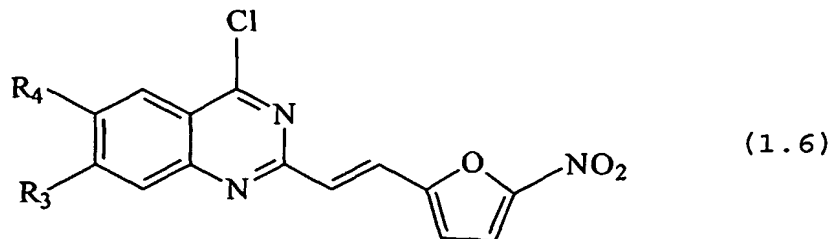


wherein R_1 , R_2 , R_3 and R_4 are as defined in claim 1,

the process comprising:

d) reacting a compound of formula 1.6

5



with a compound of the formula (1.7)



10 wherein X is H and R_1 and R_2 are as defined above.